

Appl. No. 09/641,437
Amdt. Dated March 2, 2004
Reply to Office action of December 4, 2003
Attorney Docket No. P11845/27943-00392
EUS/J/P/04-6042

Listing of Claims:

1. (Currently Amended) A packet switched local-area network for performing a call transfer service, comprising:

a transferring end-point within said packet switched network and involved in a held call with a first subscriber and an active call with a second subscriber, said transferring end-point having an active port associated with said active call, a held port associated with said held call and at least one additional port; and

a controlling node within said packet switched network and connected to said transferring end-point, in response to the initiation of a call transfer service by said transferring end-point of said first subscriber to said second subscriber, said controlling node being adapted to order said transferring end-point to relay establishing communication between said held call and said active call by relaying media packets received at ~~between~~ said active port to said first subscriber and relay media packets received at said held port to said second subscriber upon initiation of said call transfer service to connect said first subscriber and said second subscriber wherein said first subscriber and said second subscriber communicating therebetween by using said active port associated with said transferring end-point as the destination address and wherein said connection to said transferring end-point has been disconnected by said controlling node allowing said transferring end-point to make and receive other calls but not said transferring end-point in a transferred call, said transferring end-point being capable of making and receiving additional calls on said at least one additional port after said call transfer service has been performed.

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2. (Original) The packet switched local area network of Claim 1, wherein said transferring end-point comprises a mobile station in wireless communication with an A-bis gateway within said packet switched local area network, said A-bis gateway having said active port, said held port and said at least one additional port associated therewith.

3. (Original) The packet switched local area network of Claim 2, wherein said controlling node is an access node connected to said A-bis gateway, said access node being further adapted to order said A-bis gateway to disconnect said active call and said held call upon initiation of said call transfer service.

4. (Original) The packet switched local area network of Claim 3, wherein said A-bis gateway is adapted to convert between said media packets containing data that are transmitted over said packet switched local area network and circuit-switched information containing said data that are transmitted between said mobile station and said A-bis gateway.

5. (Original) The packet switched local area network of Claim 3, further comprising:
a base transceiver station connected to said A-bis gateway and in wireless communication with said mobile station, said access node being further adapted to order said base transceiver station to release radio resources assigned to said active call and said held call upon initiation of said call transfer service.

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6. (Original) The packet switched local area network of Claim 3, wherein said A-bis gateway has a media port associated with said mobile station associated therewith, said media port being linked to said active port, said access node being further adapted to order said A-bis gateway to disconnect the link between said media port and said active port.

7. (Original) The packet switched local area network of Claim 3, wherein said A-bis gateway is an anchor A-bis gateway, and wherein said transferring end-point further comprises a non-anchor A-bis gateway, said mobile station being handed over from said anchor A-bis gateway to said non-anchor A-bis gateway prior to initiating said call transfer service, said non-anchor A-bis gateway having a media port associated with said mobile station and a non-anchor port associated therewith, said non-anchor port being connected to said active port, said access node being further adapted to order said non-anchor A-bis gateway to release said non-anchor port to disconnect said active port from said non-anchor port.

8. (Original) The packet switched local area network of Claim 3, wherein said mobile station hands over into an additional network outside of said packet switched local area network prior to initiating said call transfer service, and wherein said transferring end-point further comprises a gateway connected to said A-bis gateway and said mobile station, said gateway being adapted to convert between said packet switched local area network and said additional network, said gateway having a

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gateway port associated with said mobile station associated therewith, said gateway port being connected to said active port, said access node being further adapted to order said gateway to release said gateway port to disconnect said active port from said gateway port.

9. (Original) The packet switched local area network of Claim 3, wherein said access node is further adapted to order said A-bis gateway to release said active port and said held port in response to disconnection of said transferred call by said first subscriber or said second subscriber.

10. (Original) The packet switched local area network of Claim 3, further comprising:

a Gatekeeper connected to said access node, said Gatekeeper being adapted to send and receive signaling messages between said first subscriber and said second subscriber via said access node and said A-bis gateway after said call transfer service has been performed.

11. (Original) The packet switched local area network of Claim 1, wherein said controlling node is said transferring end-point, said transferring end-point being further adapted to send and receive signaling messages between said first and second subscriber after said call transfer service has been performed.

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12. (Original) The packet switched local area network of Claim 1, wherein said first subscriber and said second subscriber are additional end-points within said packet switched local area network.

13. (Original) The packet switched local area network of Claim 1, wherein at least one of said first subscriber and said second subscriber are within an additional network outside of said packet switched local area network.

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14. (Original) The packet switched local area network of Claim 13, further comprising:

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a gateway connected to said transferring end-point, said gateway being adapted to convert between said packet switched local area network and said additional network, said media packets that are transmitted to and from said at least one of said first subscriber and said second subscriber that are within said additional network being routed through said gateway.

15. (Currently Amended) A method for performing a call transfer service within a packet switched local area network, comprising the steps of:

initiating said call transfer service by a transferring end-point involved in a held call with a first subscriber and an active call with a second subscriber, said transferring end-point having an active port associated with said active call, a held port associated with said held call and at least one additional port; and

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ordering, relaying by a controlling node connected to said transferring end-point, ~~said transferring end-point to relay media packets between received at said active port to said first subscriber and relay media packets received at said held port to said second subscriber thereby establishing communication between said first subscriber and said second subscriber wherein said first subscriber and said second subscriber communicating therebetween using said active port associated with said transferring end-point as the destination address and wherein said controlling node further disconnecting with said transferring end-point and allowing said transferring end-point to make and receive other calls to connect said first subscriber and said second subscriber but not said transferring end-point in a transferred call, said transferring end-point being capable of making and receiving additional calls on said at least one additional port after said call transfer service has been performed.~~

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16. (Original) The method of Claim 15, wherein said transferring end-point comprises a mobile station in wireless communication with an A-bis gateway within said packet switched local area network, said A-bis gateway having said active port, said held port and said at least one additional port associated therewith.

17. (Original) The method of Claim 16, wherein said controlling node is an access node connected to said A-bis gateway, and further comprising the step of:
ordering, by said access node, said A-bis gateway to disconnect said active call and said held call.

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18. (Original) The method of Claim 17, further comprising the step of: ordering, by said access node, a base transceiver station connected to said A-bis gateway and in wireless communication with said mobile station to release radio resources assigned to said active call and said held call.

19. (Original) The method of Claim 17, wherein said A-bis gateway has a media port associated with said mobile station associated therewith, said media port being linked to said active port, and further comprising the step of:

ordering, by said access node, said A-bis gateway to disconnect the link between said media port and said active port.

20. (Original) The method of Claim 17, wherein said A-bis gateway is an anchor A-bis gateway, said transferring end-point further comprising a non-anchor A-bis gateway, and further comprising the steps of:

performing a hand over, by said mobile station, from said anchor A-bis gateway to said non-anchor A-bis gateway prior to said step of initiating, said non-anchor A-bis gateway having a media port associated with said mobile station and a non-anchor port associated therewith, said non-anchor port being connected to said active port; and

ordering, by said access node, said non-anchor A-bis gateway to release said non-anchor port to disconnect said active port from said non-anchor port.

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21. (Original) The method of Claim 17, wherein said transferring end-point further comprises a gateway connected to said A-bis gateway and said mobile station, and further comprising the steps of:

handing over, by said transferring end-point, into an additional network outside of said packet switched local area network prior to said step of initiating, said mobile station being connected to said packet switched local area network through said gateway, said gateway for converting between said packet switched local area network and said additional network, said gateway having a gateway port associated with said mobile station associated therewith, said gateway port being connected to said active port; and

ordering, by said access node, said gateway to release said gateway port to disconnect said active port from said gateway port.

22. (Original) The method of Claim 17, further comprising the step of:

ordering, by said access node, said A-bis gateway to release said active port and said held port in response to disconnection of said transferred call by said first subscriber or said second subscriber.

23. (Original) The method of Claim 17, further comprising the step of:

transmitting, by a Gatekeeper connected to said access node, signaling messages between said first subscriber and said second subscriber via said access node and said A-bis gateway after said call transfer service has been performed.

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24. (Original) The method of Claim 15, wherein said controlling node is said transferring end-point, and further comprising the step of:

transmitting, by said transferring end-point, signaling messages between said first and second subscriber after said call transfer service has been performed.

25. (Original) The method of Claim 15, wherein said first subscriber and said second subscriber are end-points within said packet switched local area network.

26. (Original) The method of Claim 15, wherein at least one of said first subscriber and said second subscriber are within an additional network outside of said packet switched local area network.

27. (Original) The method of Claim 26, further comprising the step of: routing said media packets that are transmitted to and from said at least one of said first subscriber and said second subscriber that are within said additional network through a gateway connected to said controlling node, said gateway for converting between said packet switched local area network and said additional network.